This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Original): An automated method of establishing a filesystem comprising:

a) establishing a first filesystem which interfaces with devices by loading software,

including a first set of drivers, into memory and initializing said first set of drivers with said

devices, said first filesystem mounted on a root directory comprising a single storage device;

b) allowing input/out functionality within said first filesystem; and

c) while input/output functionality is made available to said first filesystem,

accessing said single storage device to obtain software, including a second set of drivers, and

loading said software into said memory said initializing said second set of drivers with said

devices to establish a second filesystem, wherein said second filesystem is mounted on a root

directory comprising said single storage device and another storage device and wherein said

first filesystem is rendered inactive.

Claim 2 (Original): A method as described in Claim 1 wherein said single storage

device and said another storage device comprise a mirrored pair of storage devices.

Claim 3 (Original): A method as described in Claim 1 wherein said second filesystem

comprises a volume manager.

Claim 4 (Original): A method as described in Claim 2 wherein said second filesystem

comprises a volume manager which directs input/output to and from said mirrored pair of

storage devices.

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Claim 5 (Original): A method as described in Claim 1 wherein said devices comprise:

storage devices;

bus controller devices; and

bus devices.

Claim 6 (Original): A method as described in Claim 1 further comprising an application program interfacing with said first filesystem and wherein said second filesystem is established transparently to said application program and further comprising said application program interfacing with said second filesystem after the establishment thereof.

Claim 7 (Original): A method as described in Claim 1 wherein said software of said c) is determined dynamically.

Claim 8 (Original): A data storage system comprising a processor, a plurality of devices and a memory wherein said memory comprises instructions for implementing a method of transparently remounting filesystem comprising:

- a) establishing a first filesystem which interfaces with said plurality of devices by loading software, including a first set of drivers, into said memory and initializing said first set of drivers with said plurality of devices, said first filesystem mounted on a root directory comprising a single storage device;
 - b) activating input/output functionality within said first filesystem; and
- c) while input/output functionality is made available to said first filesystem, accessing said single storage device to obtain software, including a second set of drivers, and loading said software into said memory and initializing said second set of drivers with said plurality of devices to establish a second filesystem, wherein said second filesystem is

mounted on a root directory comprising said single storage device and another storage device

and wherein said first filesystem is rendered inactive.

Claim 9 (Original): A data storage system as described in Claim 8 wherein said

single storage device and said another storage device comprise a mirrored pair of storage

devices.

Claim 10 (Original): A data storage system as described in Claim 8 wherein said

second filesystem comprises a volume manager.

Claim 11 (Original): A data storage system as described in Claim 9 wherein said

second filesystem comprises a volume manager which directs input/output to and from said

mirrored pair of storage devices.

Claim 12 (Original): A data storage system as described in Claim 8 wherein said

plurality of devices comprise:

storage devices;

bus controller devices; and

bus devices.

Claim 13 (Original): A data storage system as described in Claim 8 further

comprising an application program interfacing with said first filesystem and wherein said

second filesystem is established transparently to said application program and wherein said

method further comprises said application program interfacing with said second filesystem

after the establishment thereof.

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Claim 14 (Original): A data storage system as described in Claim 8 wherein said software of said c) is determined dynamically.

Claim 15 (Original): An automated method of establishing a filesystem for accessing a plurality of storage devices, said method comprising:

- a) booting from a firmware program which comprises firmware drivers, wherein said booting comprises:
- a1) using said firmware drivers, accessing a first set of drivers from a first storage device; and
- a2) using said first set of drivers, establishing a first fileystem mounted on a root directory comprising said first storage device;
- b) once said first filesystem is established, utilizing enabled input/output functionality of said first filesystem to said root directory to access a second set of drivers from said first storage device; and
- c) using said second set of drivers, establishing a second filesystem mounted on a root directory comprising a plurality of storage devices including said first storage device and wherein said first filesystem is rendered inactive.

Claim 16 (Original): A method as described in Claim 15 wherein said a2) comprises: loading said first set of drivers into memory;

disabling said input/output functionality to said first storage device;

initializing said first set of drivers and devices associated with accessing said first storage device to attach said first filesystem to said storage device; and resuming said input/output functionality to said first storage device.

Claim 17 (Original): A method as described in Claim 15 wherein said plurality of storage devices comprise a mirrored pair of storage devices.

Claim 18 (Original): A method as described in Claim 15 wherein said second filesystem comprises a volume manager.

Claim 19 (Original): A method as described in Claim 15 wherein said first set of drivers are defined according to a predetermined forceload list within said firmware.

Claim 20 (Original): A method as described in Claim 17 wherein said second filesystem comprises a volume manager which directs input/output to and from said mirrored pair of storage devices.

Claim 21 (Original): A method as described in Claim 15 further comprising an application program interfacing with said first filesystem and wherein said second filesystem is established transparently to said application program and further comprising said application program interfacing with said second filesystem after the establishment thereof.

Claim 22 (Original): A method as described in Claim 15 wherein said second set of drivers is determined dynamically.

Claim 23 (Original): A method as described in Claim 19 wherein said second set of drivers is determined dynamically.

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Claim 24 (Original): An automated method of transparently transferring from a first filesystem to a second filesystem comprising:

- a) booting from a firmware program which comprises firmware drivers, wherein said booting comprises:
- a1) using said firmware drivers, accessing a first set of drivers from a first storage device, said first set of drivers specified within a predetermined firmware listing; and
- a2) using said first set of drivers, establishing a first filesystem mounted on a root directory comprising said first storage device;
- b) once said first filesystem is established, utilizing enabled input/output functionality of said first filesystem to said root directory to access a second set of drivers from said first storage device and software for constructing a volume manager; and
- c) using said second set of drivers and said software, establishing a second filesystem, comprising said volume manager, and mounted on a root directory comprising a plurality of storage devices configured as at least one mirrored pair and wherein said first fielsystem is rendered inactive.

Claim 25 (Original): A method as described in Claim 24 wherein said second set of drivers is determined dynamically.

Claim 26 (Original): A method as described in Claim 24 wherein said volume manager directs input/output to and from said at least one mirrored pair.

Claim 27 (Original): A method as described in Claim 24 wherein said second filesystem is established transparently.